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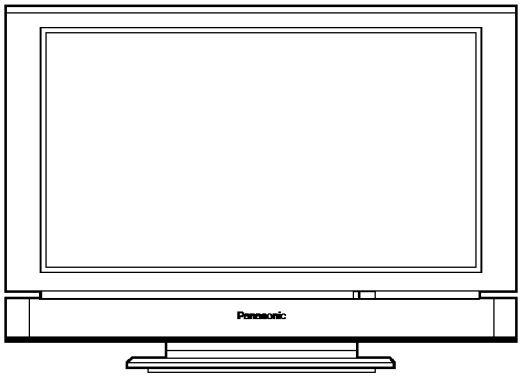
Service Manual

22” Diagonal LCD TV

TX-22LT2F

LH4 Chassis



SPECIFICATIONS

Specifications

Power Source

AC 100~240V, 50/60Hz

Power Consumption

Average use: 67W

Stand-by condition: 5W

TV set: DC 15V, 4.1 A max.

LCD

22-inch(558mm), 16:9 aspect ratio LCD panel

Screen Size

19.17-inch (486.7mm)(W) x 10.77-inch (273.6mm)(H) x / 22-inch (558mm)(Diagonal)

Sound

Speaker

Tweeter (4 x 7cm 2pcs, 8 Ω), Woofer (Ø5cm 2pcs, 4 Ω)

Audio Output

9W (2.5W+2.5W+4.0W (Woofer)), 10%THD

Headphones

M3(3.5 mm) Jack x 1 8 Ω impedance

FEATURES

Aero-Hammer ® Double Woofer System (2Way 4Speaker System)

Receiving Systems/ Band name

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PAL B,G,H, SECAM B,G SECAM L/L'

VHF E2-E12	VHF H1-H2 (ITALY)
VHF A-H (ITALY)	UHF E21-E69
CATV (S01-S05)	CATV S1-S10 (M1-M10)
CATV S11-S20 / (U1-U10)	CATV S21-S41 (Hyperband)

PAL 525/60

Playback of NTSC tape from some PAL video recorders (VCR)

M.NTSC

Playback from M.NTSC Video recorders (VCR)

NTSC

Playback from NTSC Video recorders (VCR)

(AV INPUT ONLY)

Aerial-Rear

UHF-VHF

Operating Conditions

Temperature: 41°F-95°F(5-35°C)

Humidity: 5%-90% RH (non-condensing)

Connection Terminals

AV1

21Pin socket (Audio/Video in, TV out, RGB in)

AV2

21Pin socket (Audio/Video in, Audio/Video out, S-Video, Q-Link)

AV3

VIDEO

RCA PIN Type x 1

S-VIDEO

Mini DIN 4-pin

AUDIO L-R

RCA PIN Type x 2

Dimensions (W x H x D)

Including TV Stand

586mm x 424mm x 240mm

TV Set Only

586mm x 388mm x 67mm

Weight (Mass)

11.5kg Net

Note:

Design and Specifications are subject to change without notice.
Weight and Dimensions shown are approximate.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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Panasonic®

1. Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.2. Touch-Current Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use Leakage Current Tester (Simpson 228 or equivalent) to measure the potential across the measuring network.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reserve the AC plug in the AC outlet and repeat each of the above measure.
6. The potential at any point (TOUGH CURRENT) expressed as voltage U_1 and U_2 , does not exceed the following values:
   For a. c.: U_1 = 35 V (peak) and U_2 = 0.35 V (peak);
   For d. c.: U_1 = 1.0 V,

Note:
The limit value of U_2 = 0.35 V (peak) for a. c. and U_1 = 1.0 V for d. c. correspond to the values 0.7 mA (peak) a. c. and 2.0 mA d. c.
The limit value U_1 = 35 V (peak) for a. c. correspond to the value 70 mA (peak) a. c. for frequencies greater than 100 kHz.

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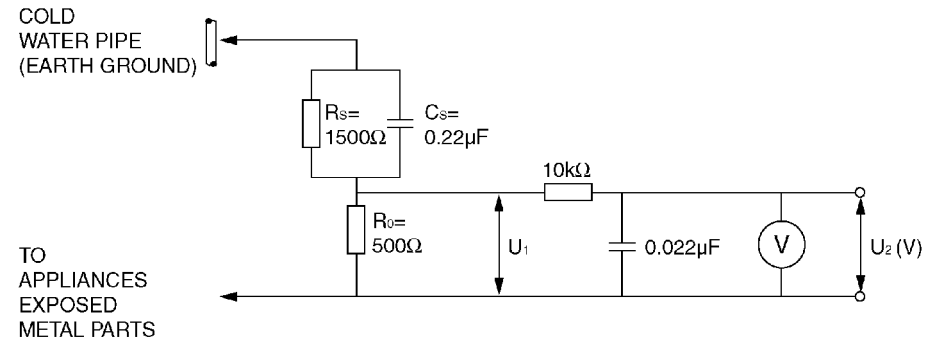
7. **In case a measurement is out of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

Figure 1

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω)

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance: ≥ 1 MΩ
Input capacitance: ≤ 200 pF
Frequency range: 15 Hz to 1 MHz and d.c. respectively

NOTE - Appropriate measures should be taken to obtain the correct value in case of non-sinusoidal waveforms.

2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistorsand semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, whichshould be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES**

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devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparableconductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient todamage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and (Cu) although other types are available.
This model uses Pb Free solder in it's manufacture due to environmental conservation issues.
For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.
PCBs manufactured using lead free solder will have the PbF within a leaf Symbol

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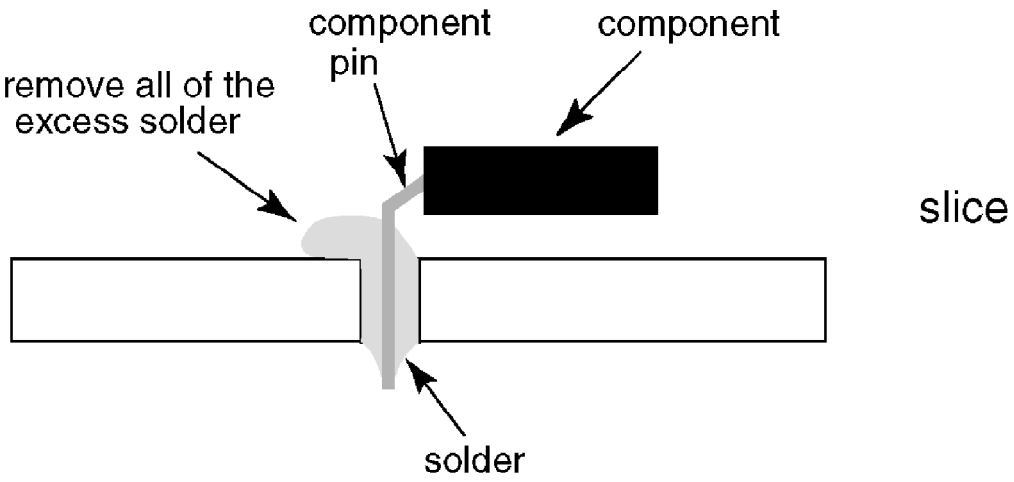
stamped on the back of PCB.

Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 ~F (30~40~C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 ~F (370 ± 10 ~C).

- Pb free solder will tend to splash when heated too high (about 1100 ~F or600~C).
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also beused.

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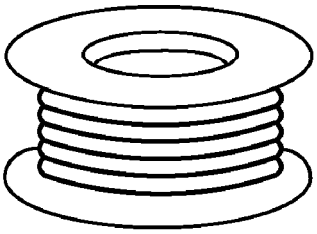
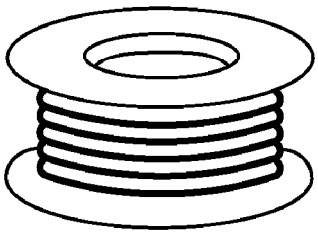
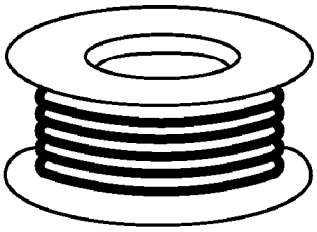
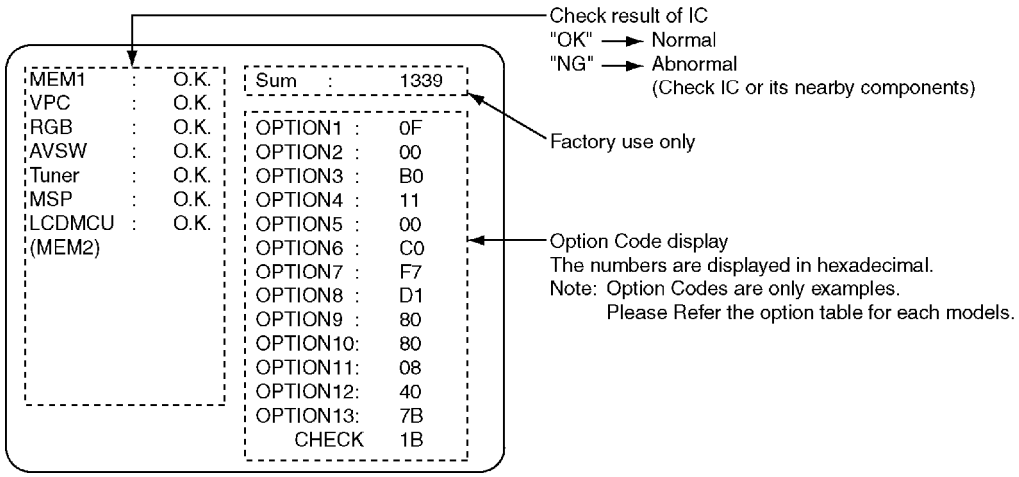
0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

4. Self Check

1. Self-Check is used to automatically check the bus lines and hexadecimal code of the TV set.

2. To get into the Self -Check mode press the Down (— / V) button on the customer controls at the front of the set, at the same time pressing the Recall button on the remote control, andthe screen will show :



If the CCU ports have been checked and found to be incorrect or not located then "--" will appear in place of "O.K.".

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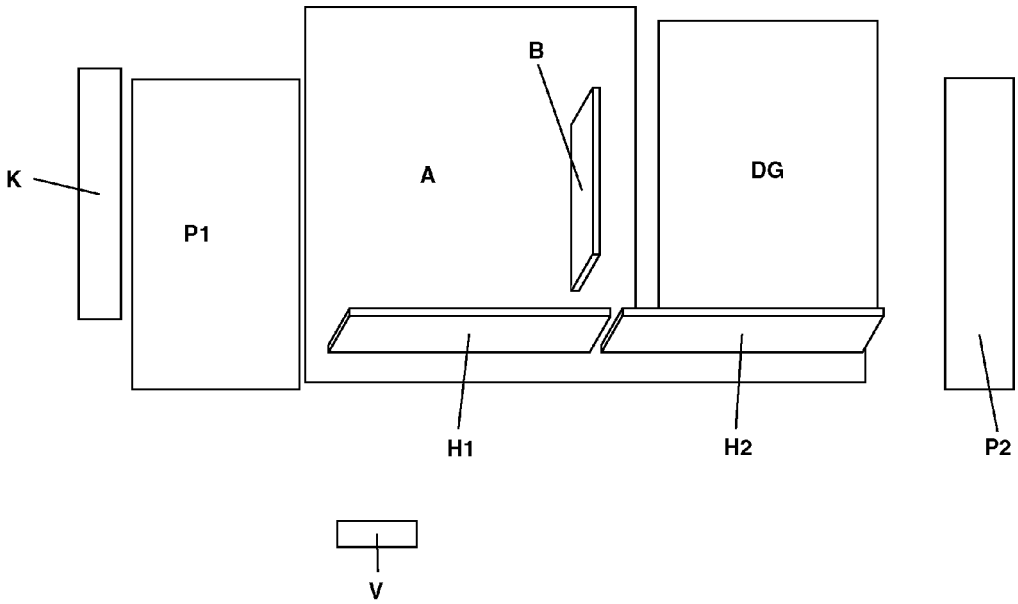
Display	Ref. No.	Description	P.C.B.
MEM1	IC1004	EEPROM	DG-Board
VPC	IC9001	Video Processor	DG-Board
RGB	IC9505	RGB Processor	DG-Board
AVSW	IC4002	AV switch	A-Board
Tuner	TNR001	Tuner	B-Board
MSP	IC2503	Multi Sound Processor	A-Board
LCDMCU	IC3002	LCD MCU	DG-Board

5. Chasis Board Layout



Board Name	Function
A - Board	Main (DC Power Supply,Audio,Micro Processor,Input Select)
B - Board	Tuner
DG - Board	Global Core,AMDP,RGB Processor
H1 - Board	DC Power Jack,AV Connector
H2 - Board	AV Connector
K - Board	Switch
P1 - Board	Back Light Inverter
P2 - Board	Back Light Inverter
V - Board	RM,LED

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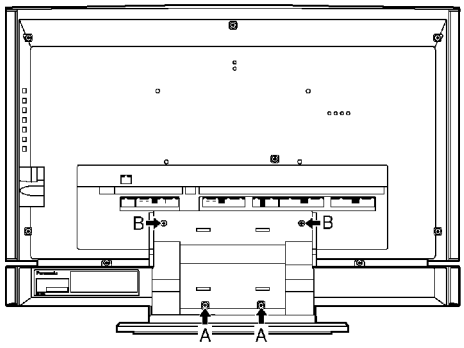
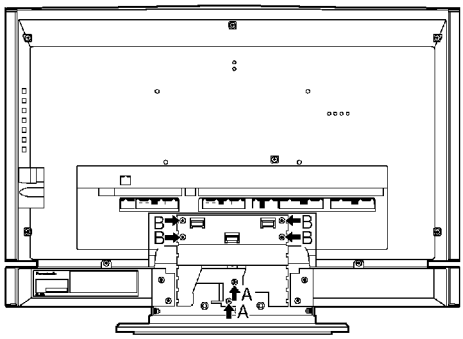
6. Servicing method

6.1. Removing tilt base

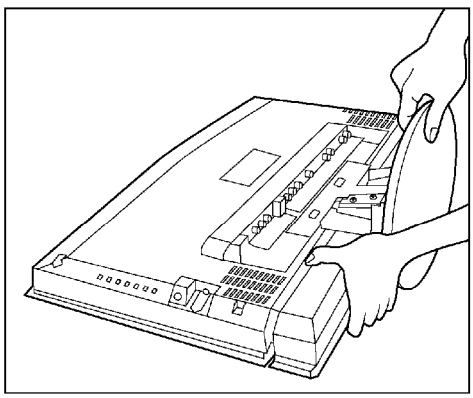
Remove the fixing screws A (2pcs).
(1) Remove the fixing screws B (2pcs).
(2) Pull up the tilt cover (rear) in such a way as to turn its lower part upward with its upper part as a pivot. Remove the tilt cover while disengaging the hooks (4



(3) Lay down the main unit so that the rear panel faces upward, and remove the fixing screws A (2pcs).
(4) Remove the fixing screws B (4pcs).

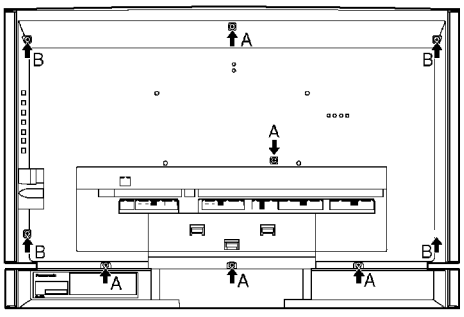


(5) While supporting the unit with hand, pull out the tilt base. Remove the tilt base while disengaging the hooks (3 locations).



6.2. Removing rear panel

(1) Remove the tilt base. (See 5.1.)
(2) Remove the fixing screws A (5pcs) and B (4pcs), and detach the rear panel.



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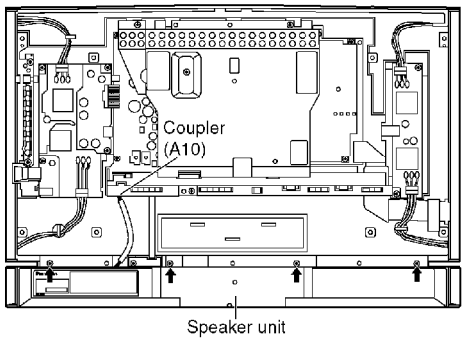
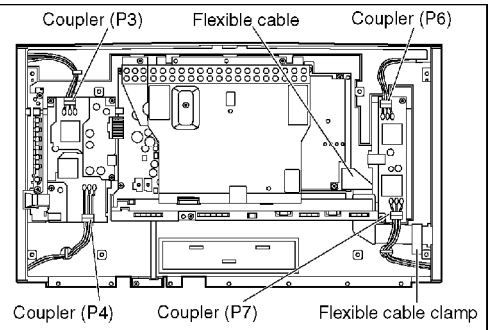
6.3. Removing speaker unit

(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screws (4pcs).
(3) Disconnect the coupler (A10) and remove the speaker unit.



6.4. Removing chassis

(1) Remove the speaker unit. (See 5.3.)
(2) Disconnect the couplers (P3, P4, P6 and P7).
(3) Disconnect the flexible cable, and unlock the flexible cable clamp to free the cable.



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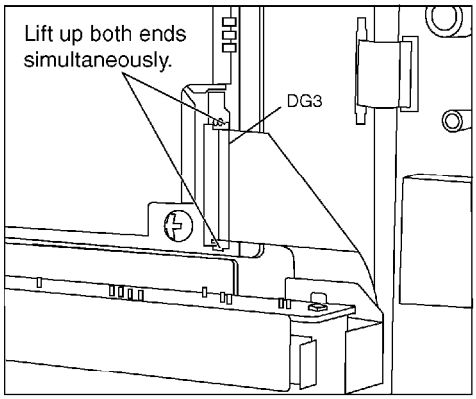
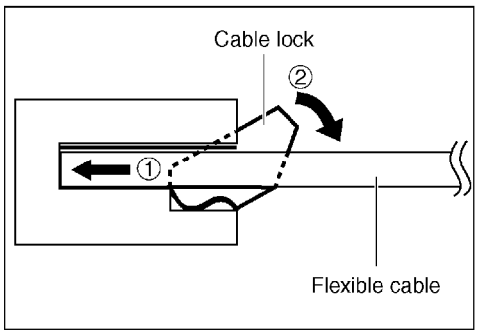
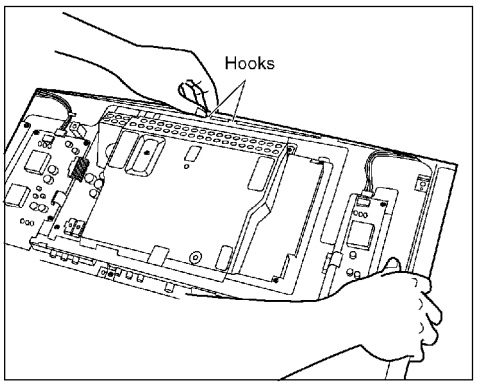
* Disconnecting flexible cable from the coupler
Lift up both ends of the cable lock (brown colored) simultaneously to release the locking. Once the flat cable is disconnected from the coupler, the cable lock tends to detach from the coupler easily. Due precaution should be paid on it.



* Reconnecting flexible cable to the coupler
Attach the cable lock (brown) to the coupler (white) with its both ends being pulled up. Insert the flat cable into the coupler over the cable lock until the cable stops firmly at the coupler end. Press down both ends of the cable lock until their upper faces are positioned flat to lock the cable.



(4) As shown in the figure, remove the chassis while disengaging the two hooks at top center of the chassis from the front panel.
* The LCD panel is left lay on the front panel. (The LCD panel is easily removable.) Be careful not to damage the LCD panel.



6.5. Removing A-Board

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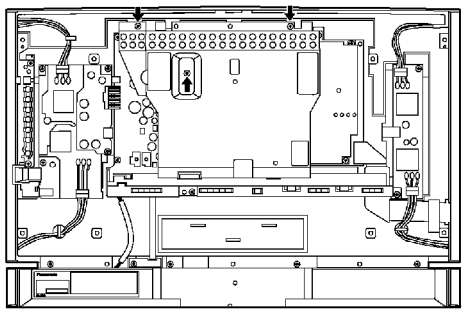
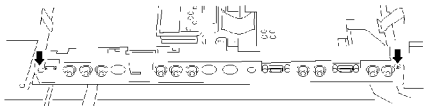
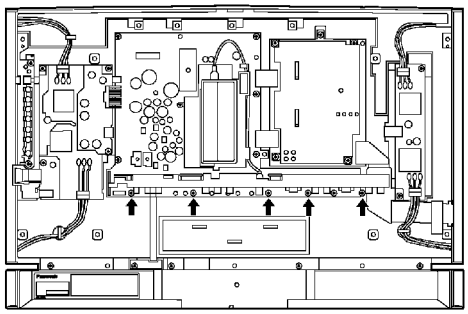
(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screws (3pcs). Lift up the upper part of the main shield and detach it while disengaging the hooks (3 locations) at the lower part.



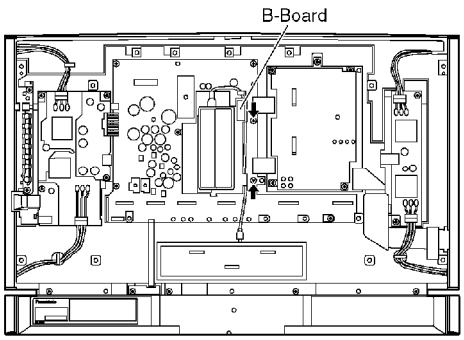
(3) Remove the fixing screws (2pcs), and dismount the terminal covers (both right and left).
* Pull up the terminal cover at the side unscrewed and disengage the hooks at the opposite to remove the terminal cover.



(4) Remove the fixing screws (5pcs).
(5) Lift the terminal block to remove while disconnecting the couplers (A12, A13, A14, A16 and A17) between the terminal block and the A-Board.
* Caution: Do not apply excessive force when disconnecting the couplers to prevent damage to the PCB.
(6) Disconnect the cable tied to the antenna terminal (rear side) of the terminal block, and remove the terminal block.



(7) Remove the fixing screws (2pcs). While disconnecting the couplers (A3 and A4) between the B-Board (with tuner assembly) and the A-Board, dismount the B-Board from the A-Board.
* Caution: Do not apply excessive force when disconnecting the couplers to prevent damage to the PCB.



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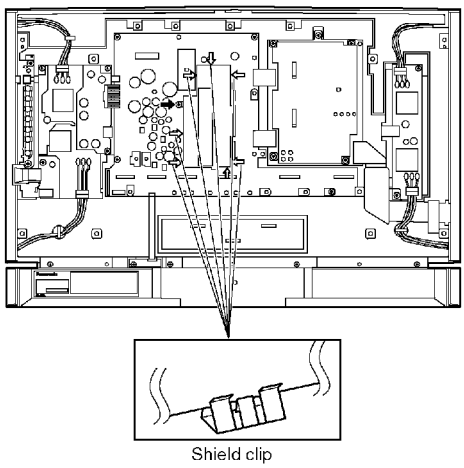
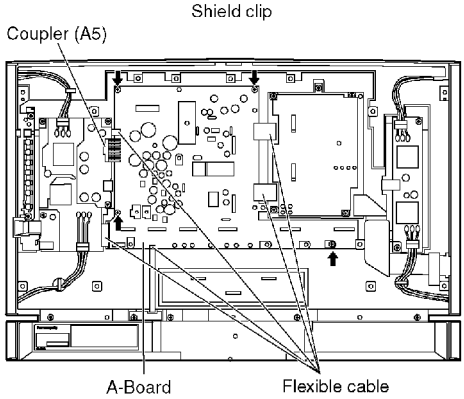
(8) Remove the fixing screw (1pce). Detach the shield while disengaging the shield clips (7 locations).

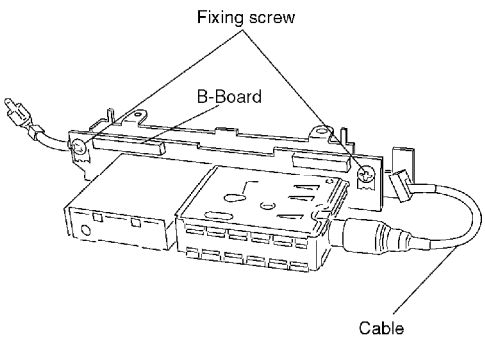


(9) Lift up the coupler (A5) by holding its projection to remove it (from P1).
(10) Disconnect the flexible cables (5 locations).
* When disconnecting, pull out the cable straight (perpendicular to the coupler face).
(11) Remove the fixing screws (4pcs) and dismount the A-Board.



6.6. Removing B-Board (with tuner assembly)

(1) Disconnect the B-Board (with tuner assembly) with metal fitting. (See 5.5. procedures 1-2 and 6-7.)
(2) Remove the fixing screws (2pcs), and separate the B-Board (with tuner assembly).



6.7. Removing DG-Board

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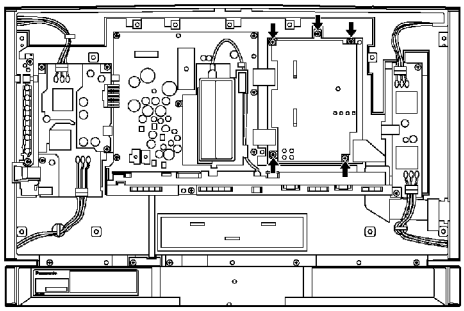
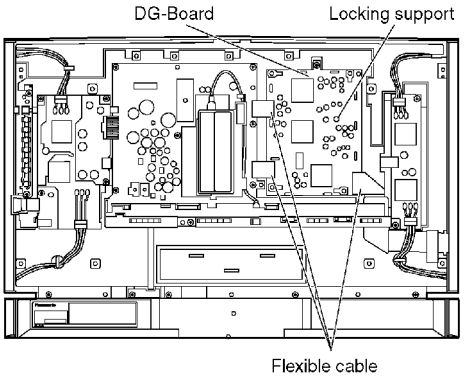
(1) Remove the rear panel. (See 5.2.)
(2) Detach the main shield. (See 5.5. procedure 2.)
(3) Remove the fixing screws (5pcs), and detach the shield while releasing the shield clips (10 locations).

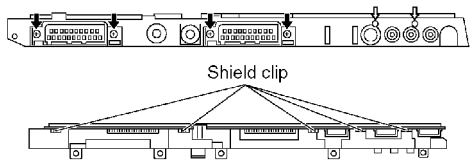


(4) Disconnect the flexible cables (3 locations).
* When disconnecting and reconnecting the flexible cables, refer to the notes in the procedure (3) in 5.4. Removing chassis.
When disconnecting the two flexible cables from the A-Board, pull out the cables straight (perpendicular to the coupler face).
(5) Unlock the locking support and remove the DG-Board.



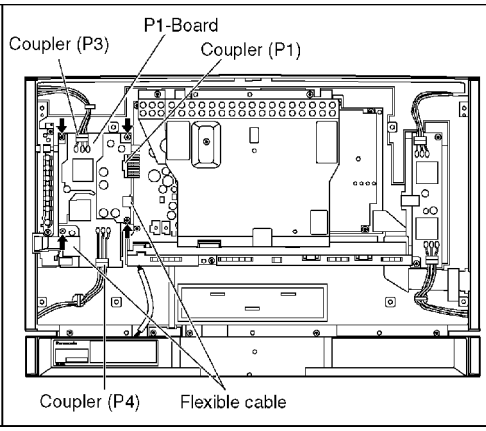
6.8. Removing H1-Board and H2-Board

(1) Remove the terminal block. (See 5.5. procedures 1-6.)
(2) Remove the fixing screws (4pcs/2pcs).
(3) Release the shield clips (4 locations) and dismount H1-Board.
(4) Release the shield clips (2 locations) and dismount H2-Board.



6.9. Removing P1-Board

(1) Remove the rear panel. (See 5.2.)
(2) Disconnect the couplers (P2, P3 and P4).
(3) Disconnect the flexible cables (2 locations).
(4) Detach the power button from the power switch.
(5) Remove the fixing screws (4pcs) and dismount P1-Board.



6.10. Removing P2-Board

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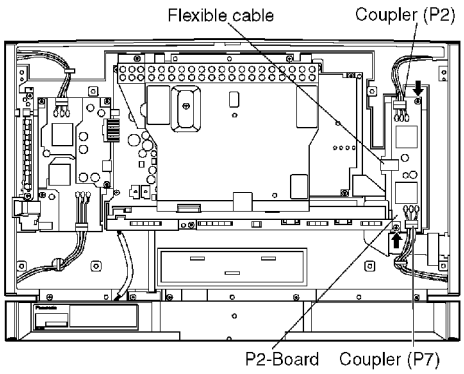
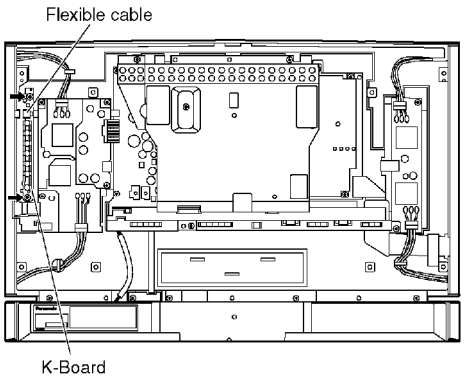
(1) Remove the rear panel. (See 5.2.)
(2) Disconnect the couplers (P2 and P7).
(3) Disconnect the flexible cable.
(4) Remove the fixing screws (2pcs) and detach the shield and dismount P2-Board.



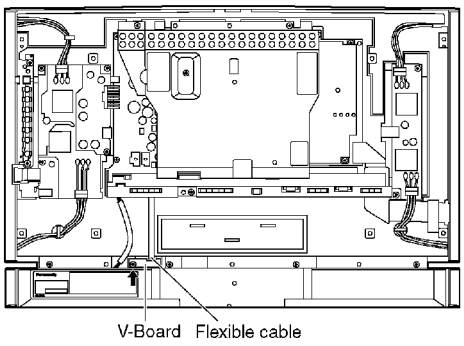
6.11. Removing K-Board

(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screws (2pcs).
(3) Disconnect the flexible cable and dismount K-Board.



6.12. Removing V-Board

(1) Remove the rear panel. (See 5.2.)
(2) Remove the fixing screw (1pce).
(3) Disconnect the flexible cable and dismount V-Board.



6.13. A-Board servicing

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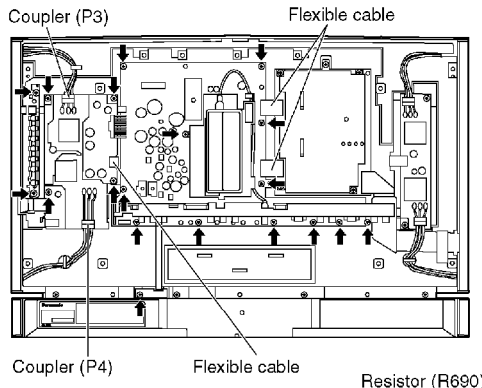
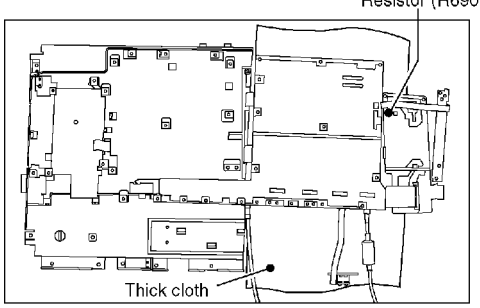
(1) Remove the rear panel, the main shield and the terminal covers (right and left). (See 5.5. procedures 1-3.)
(2) Remove the fixing screws (19pcs).
(3) Disconnect the couplers (P3 and P4) and the flexible cable (1 location) of P1-Board.
(4) Disconnect the flexible cables (2 locations) between the A-Board and the DG-Board.
* When disconnecting, pull out the cable straight (perpendicular to the coupler face).



(5) Cover the DG-Board with thick cloth for insulation and protection, and lay the main PCB and other PCBs upside down.
* The figure illustrates the status after chassis removal.
* The protection circuit is activated upon disconnection of the coupler P3. The above procedure will cancel the activation of the protection circuit.



7. Service Mode Function

MPU controls the functions switching for each IICs through IIC bus in this chassis. The following setting and adjustment can be adjusted by remote control in Service Mode.

7.1. How to enter SERVICE 1

1. In sound menu, set BASS to MAX/MUM, and set TREBLE to MINIMUM.

2. Simultaneously press INDEX button on remote control and DOWN button [— / V] on the TV set.

7.2. How to enter SERVICE 2

1. Set the channel to CH99.

2. Press HOLD button on remote control.

Note:

To exit to Service mode, press N or Power button on remote control.

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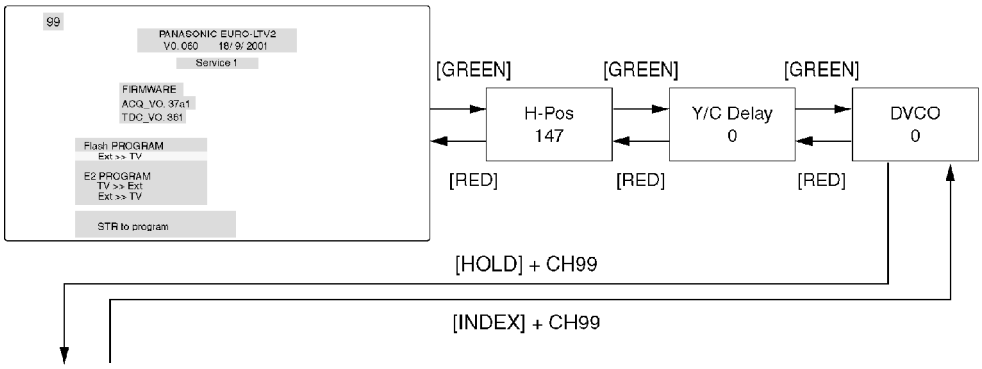
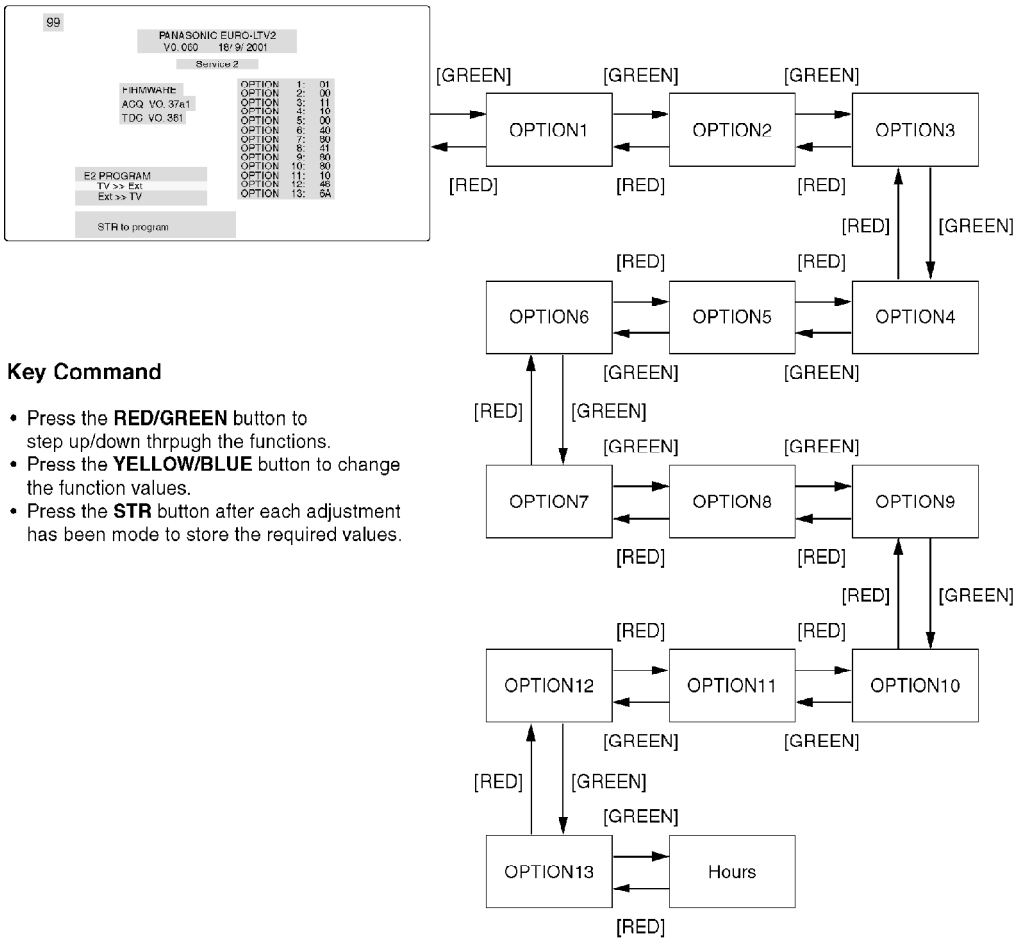
SERVICE 1



SERVICE 2



Key Command

- Press the **RED/GREEN** button to step up/down thrpugh the functions.
- Press the **YELLOW/BLUE** button to change the function values.
- Press the **STR** button after each adjustment has been mode to store the required values.

7.3. Option Description

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option1		0F		
	b0	1	Colour system	Auto(1)
	b1	1		SECAM(1)
	b2	1		NTSC(1)
	b3	1		M.NTSC(1)
	b4	0	TV NTSC 50	Reserved
	b5	0	TV SECAM 60	Reserved
	b6	0	AV NTSC 50	Reserved
	b7	0	AV SECAM 60	Reserved
option2		00		
	b0	0	(CH Plan)	set to 0
	b1	0		set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	0		set to 0
	b5	0		set to 0
	b6	0		set to 0
	b7	0		set to 0
option3		B0		
	b0	0	(sub picture)	set to 0
	b1	0	(2tuner)	set to 0
	b2	0	(VGA)	set to 0
	b3	0	(YUV)	set to 0
	b4	1	(Wide (16:9))	set to 0
	b5	1	HYPER	UHF only (0), UHF/VHF (1)
	b6	0	SIF	I only(0), BG only(1)
	b7	1		I/BG/DK/L(2), BG/DK(3)
option4		11		
	b0	1	A2 enable	enable(1)
	b1	0		set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	1	NICAM enable	enable(1)
	b5	0		set to 0
	b6	0		set to 0
	b7	0		set to 0
option5		C0		
	b0	0	(A2 select 6.5MHz)	set to 0
	b1	0	(NICAM priority)	set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	0		set to 0
	b5	0		set to 0
	b6	0		set to 0
	b7	0		set to 0
option6		C0		
	b0	0	(VCR/GAME in search)	Set to 0
	b1	0	(SASO enable)	set to 0
	b2	0	Noise mute	Noise mute enable(0)
	b3	0	Monitor out AV1 mute	Monitor out AV1 mute(1)
	b4	0	(AV SW 3/2AV out)	set to 0
	b5	0	Tuner	MACO tuner (0), ALPS tuner (1)
	b6	1	free	
	b7	1	free	
option7		F7		
	b0	1	Power up EC-Mode	Power on EC enable (1)
	b1	1	CH Blanking	Blanking enable (1)
	b2	1	AV Blanking	Blanking enable (1)
	b3	0	Auto WIDE	WSS enable only in aspect Auto (0), WSS always enable (1)
	b4	1	Volume correction	TV Volume correction enable (1)
	b5	1	AVLink	Q-Link on/off selectable in menu (1)
	b6	1	MPX/NICAM display	Display NICAM (0), Display MPX (1)
	b7	1	free	

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option8		D1		
	b0	1	free	
	b1	0	(Geomagnetic Sensor)	set to 0
	b2	0	(Geomagnetic Polarity)	set to 0
	b3	0	RF Attenuation	Enable(1)
	b4	1	Fine tuning	Enable(1)
	b5	0	Search speed	Slow(1) Fast(0)
	b6	1	TEXT FLOF	Reserved
	b7	1	TEXT TOP	TOP enable (1)
option9		80		
	b0	0	free	
	b1	0	free	
	b2	0	free	
	b3	0	free	
	b4	0	free	
	b5	0	(Surround SP polarity)	set to 0
	b6	0	Volume curve	Volume curve1(0), curve2(1)
	b7	1	free	
option10		80		
	b0	0	free	
	b1	0	(OSD language)	set to 0
	b2	0		set to 0
	b3	0		set to 0
	b4	0	Blue Back	enable(0)
	b5	0	free	
	b6	0	free	
	b7	1	(Protect 5V detect)	set to 1
option11		08		
	b0	0	Shop mode	enable(1)
	b1	0	(DDM/Dynamic display)	set to 0
	b2	0	(Sub Headphone)	set to 0
	b3	1	Scan mode Blanking	Blanking enable (1)
	b4	0	User aspect 14:9	enable(1)
	b5	0	(NICAM C4 bit)	set to 0
	b6	0	(ID-1)	set to 0
	b7	0	(1080i)	set to 0
option12		40	**Area Option**	
	b0	0	(Asia)	set to 0
	b1	0	(Australia)	set to 0
	b2	0	Ireland	Ireland(1)
	b3	0	UK	UK(1)
	b4	0	(MELCOA)	set to 0
	b5	0	(28 inch)	set to 0
	b6	1	(Large size)	set to 1
	b7	0	(PTV)	set to 0
option13		7B	**Temporary**	
	b0	1	(VDU Version)	set to 0
	b1	1	(GC Version)	set to 1
	b2	0	(UV Swap)	set to 0
	b3	1	TEXT	Enable(1)
	b4	1	LT2 22inch	22inch(1), 15inch(0)
	b5	1	free	
	b6	1	(Picture Shift)	set to 1
	b7	0	(CIP2)	set to 0

8. Conductor Views

8.1. A-Board

8.2. B, H1, H2, K, P1 and P2-Board

8.3. DG-Board

9. Block and Schematic Diagrams

9.1. Schematic Diagram Notes

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Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
   All resistors are cabon 1/4W resistor, unless marked as follows:
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
   ○ : Nonflammable ⊠ : Metal Oxide
   △ : Solid ◎ : Metal Film
   ⊡ : Wire Wound ⊗ : Fuse:
2. **Capacitor**
   All capacitors are ceramic 50V capacitor, unless marked as follows:
   Unit of capacitance is μF, unless otherwise noted.
   ⊗ : Temperature Compensation ⊣⊢ : Electrolytic
   ⓜ : Polyester ⊣⊢ : Bipolar
   ⓜ : Metalized Polyester Ⓣ : Dipped Tantalum
   ⊠ : Polypropylene ② : Z-Type
3. Coil
   Unit of inductance is μF, unless otherwise noted.
4. Test Point
   ○ : Test Point position
5. Earth Symbol
   # : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source ..... AC 110-240V, 50/60Hz
   Receiving Signal ..... Colour Bar signal (RF)
   All customer's controls ..... Maximum positions
7. Number in red circle indicates waveform nember.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150- MA162 (Replacement part)

9.2. Power Block Diagram

9.3. Signal Block Diagram

9.4. Interconnection Schematic Diagram

9.5. A-Board (1 of 7) and H1-Board Schematic Diagram

9.6. A-Board (2 of 7) and H2-Board Schematic Diagram

9.7. A-Board (3 of 7) Schematic Diagram

9.8. A-Board (4 of 7), B-Board, K-Board and V-Board Schematic Diagram

9.9. A-Board (5 of 7), P1-Board and P2-Board Schematic Diagram

9.10. A-Board (6 of 7) and P1-Board Schematic Diagram

9.11. A-Board (7 of 7) Schematic Diagram

9.12. DG-Board (1 of 7) Schematic Diagram

9.13. DG-Board (2 of 7) Schematic Diagram

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9.14. DG-Board (3 of 7) Schematic Diagram

9.15. DG-Board (4 of 7) Schematic Diagram

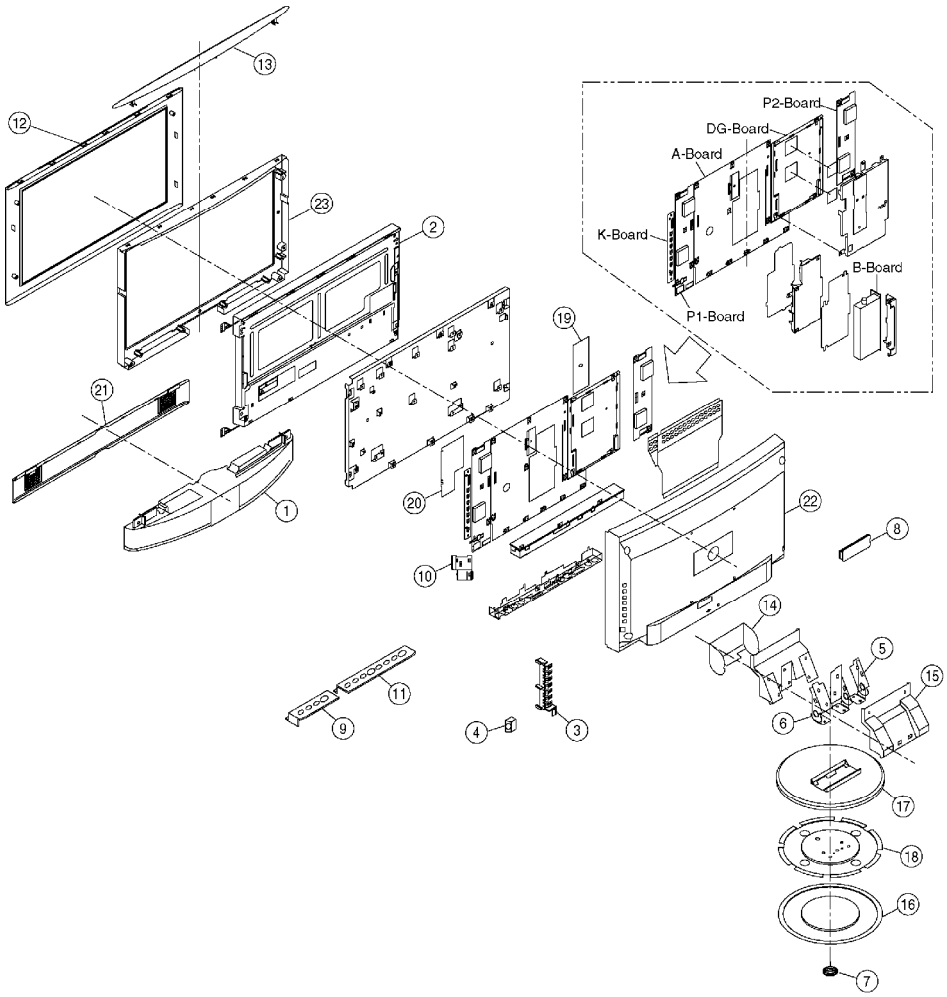
9.16. DG-Board (5 of 7) Schematic Diagram

9.17. DG-Board (6 of 7) Schematic Diagram

9.18. DG-Board (7 of 7) Schematic Diagram

10. Parts Location & Mechanical Replacement Parts List

10.1. Parts Location



10.2. Packing Exploded View

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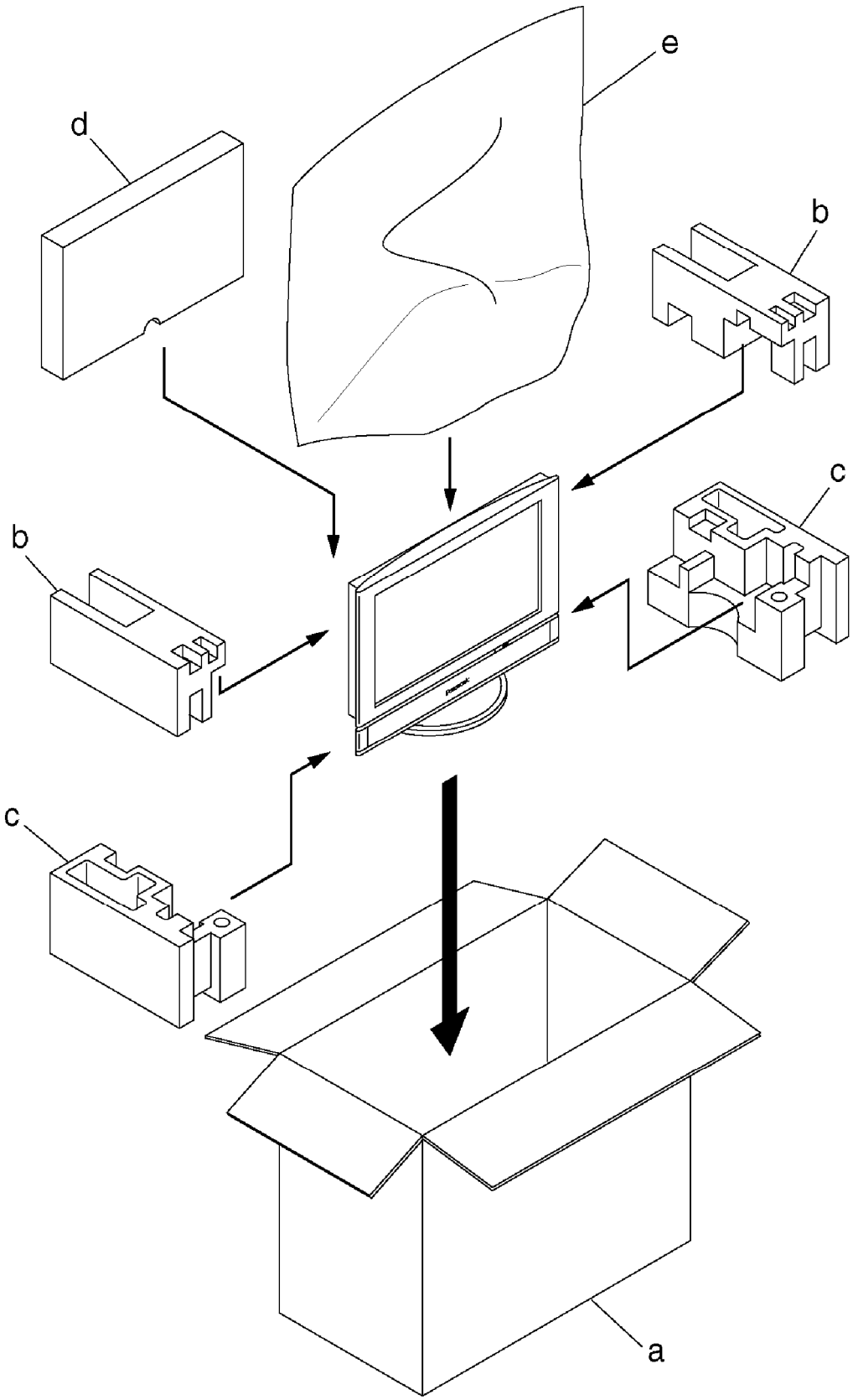

10.3. Mechanical Replacement Parts List

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IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS IMPORTANT FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY MANUFACTURER'S SPECIFIED PARTS.

⚠ AC ADAPTOR PARTS NO. NOJZHK000007 REPLACE TO NEW AC ADAPTOR WHEN BROKEN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAB719A0	SPEAKER UNIT	1	
2	EDTCF08QAFZ4	LCD PANEL	1	⚠EDTCF08QAFZ2
	EUR511252	REMOCON TRANSMITTER	1	
	J0KD00000056	EMI FILTER	1	
	K1SZBDBA0002	IEC JACK	1	
	K1TZA9D00090	IF CABLE	1	
	K2CR2DA00006	AC CORD	1	⚠
	N0JZHK000007	AC ADAPTER	1	⚠
	TBME643	MODEL NAME PLATE	1	⚠
3	TBXA27802	CONTROL BUTTON	1	
4	TBXA29402	POWER BUTTON	1	
5	TEJA033	CHILD SHAFT(LEFT)	1	
6	TEJA034	CHILD SHAFT(RIGHT)	2	
7	TEJF016	SHAFT	1	
	TESA140	SPRING	2	
	TESA172	SPRING	1	
	THTA025	SCREW	4	
	THTF002U	SCREW	4	
	THW70035Y	WASHER	1	
	TKKC5104	LED TREND SHAFT	1	
8	TKKL5141-1	CONNECTOR COVER	1	
	TKKL5142	RECEIVER COVER	1	
9	TKKL5145	TERMINAL COVER(RIGHT)	1	
10	TKKL5147-1	JACK BRACKET	1	
11	TKKL5210	TERMINAL COVER(LEFT)	1	
12	TKPA46006	FRONT PANEL	1	
13	TKPA46201	TOP COVER	1	
14	TKXA10101	CHILD COVER(FRONT)	1	
15	TKXA10202	CHILD COVER	1	
16	TKXA10301	PLATE	1	
17	TKXA10401	COVER	1	
18	TKZG5025	CHILD BASE	1	
	TMKA202	CUSHION	2	
	TMKA202	CUSHION	1	
	TMKE161	INSULATOR	1	
19	TMKE163	INSULATOR(RIGHT)	1	
20	TMKE164	INSULATOR(LEFT)	1	
	TMKG254	CUSHION	2	
	TMKG255	CUSHION	1	
	TMKG321	RUBBER SPACER	1	
	TMKK039-1	SET LEG	6	
	TMKK096	SPACER	1	
	TMKX291	INSULATOR	1	
	TMKX364	INSULATOR	1	
	TMME149	CLAMPER	4	
	TMME149	CLAMPER	1	
	TMME150	INSULATOR	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMME157	CLAMPER	2	
	TMWJ023	BRACKET	1	
a	TPCB06406	CARTON BOX	1	⚠
b	TPDA0479	CUSHION(TOP)	1	
c	TPDA0480	CUSHION(BOTTOM)	1	
d	TPDF0551	ACCESSORY BOX	1	
e	TPE814109-3	SET COVER	1	
	TQBC0388	INSTRUCTION BOOK(ENGLISH)	1	⚠
	TQBC0389	INSTRUCTION BOOK(GERMAN)	1	⚠
	TQBC0390	INSTRUCTION BOOK(FRENCH)	1	⚠
	TQBC0391	INSTRUCTION BOOK(ITALIAN)	1	⚠
	TQBC0392	INSTRUCTION BOOK(SPANISH)	1	⚠
	TQBC0393	INSTRUCTION BOOK(DUTCH)	1	⚠
	TQBC0394	INSTRUCTION BOOK(DANISH)	1	⚠
	TQBC0395	INSTRUCTION BOOK(SWEDISH)	1	⚠
	TQE8513-2	POLY BAG	1	
	TSXL155	CABLE(6P)	1	
	TSXL158	CABLE(5P)	1	
	TSXL160	CABLE(10P)	1	
	TSXL161	CABLE(50P)	1	
	TSXL195	CABLE(36P)	1	
	TSXL196	CABLE(50P)	1	
	TSXL197	CABLE(17P)	1	
21	TTPA0159-2	SPEAKER PANEL ASS'Y	1	
22	TXFKU010GLK	REAR COVER ASS'Y	1	⚠
23	TXFKY010GCK	FRONT CABINET ASS'Y	1	⚠
	XNHTHN2943-1	F TERMINAL NUT	1	
	XTB4+10F	SCREW	1	
	XTB4+12J	SCREW	2	
	XTB4+12JFY	SCREW	2	
	XTB4+16J	SCREW	4	
	XTB4+20JFY	SCREW	5	
	XTB4+30JFY	SCREW	4	
	XTN3+8J	SCREW	4	
	XTN3+8JFY	SCREW	6	
	XTS3+10AFY	SCREW	5	
	XTV3+10G	SCREW	4	
	XTV3+8J	SCREW	2	
	XTW3+6T	SCREW	2	
	XTW3+6T	TAPPING SCREW	29	
	XYN4+F12	SCREW	6	
	XZBT6506	POLY BAG	1	

11. Replacement Parts List

11.1. Replacement Parts List Notes

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Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide Metal Film	J : ±5%
S : Solid	K : ±10%
W : Wire Wound	M : ±20%

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester Polypropylene	F : ±1pF
	G : ±3pF
	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

11.2. Electrical Replacement Parts List

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
A1	K1MN36A00006	36P CONNECTOR	1	
A2	K1MN50A00005	50P CONNECTOR	1	
A3	K1KA14A00127	14P CONNECTOR	1	
A4	K1KA10A00263	10P CONNECTOR	1	
A5	TJS5A9180	10P CONNECTOR	1	K1KA10A00215
A6	K1MN06A00002	6P CONNECTOR	1	
A7-A9	K4ZZ01000128	TERMINAL	3	
A10	TJS1A8120	6P CONNECTOR	1	K1KA06B00049
A11	K1MN05B00031	5P CONNECTOR	1	
A12,13	K1KB14A00041	14P CONNECTOR	2	
A14	K1KB12A00074	12P CONNECTOR	1	
A16,17	K1KA20A00202	20P CONNECTOR	2	
A18	K1MN17A00028	17P CONNECTOR	1	
B1	K1KB14B00026	14P CONNECTOR	1	
B2	K1KB10B00042	10P CONNECTOR	1	
C001	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C002	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C004	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C005	ECJ2VF1H223Z	C 0.022UF, Z, 50V	1	
C008	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C009	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C010	EEVHB1H4R7	E 4.7UF, 50V	1	
C011	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C012	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C013	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C014	EEVHB1H4R7	E 4.7UF, 50V	1	
C016-18	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C022	F1K1H1050002	C 1UF, Z, 50V	1	
C023,24	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C025	F1K1C4750010	C 47UF, Z, 50V	1	
C030	ECJ2VB1H273K	C 0.027UF, K, 50V	1	
C031	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C032	EEVHB0J470	E 47UF, 6.3V	1	
C601	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C602	ECJ2XF1H102Z	C 1000PF, Z, 50V	1	
C603	ECA1EHG101	E 100UF, 25V	1	
C604	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C607	ECJ2XC1H331J	C 330PF, J, 50V	1	
C608,09	ECJ2XB1C334K	C 0.33UF, K, 16V	2	
C610,11	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C612	ECA1EHG101	E 100UF, 25V	1	
C613	F2A1E1010030	E 100UF 25V	1	
C614	ECJ3XF1E105Z	C 1UF, Z, 25V	1	
C615,16	ECHU1H104JC9	P 0.1UF. 50V	2	
C617,18	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C620,21	ECJ2XB1H562K	C 5600PF, K, 50V	2	
C625,26	ECHU1H563JC9	P 0.056UF. 50V	2	
C629,30	ECHU1H563JC9	P 0.056UF. 50V	2	
C631,32	ECJ2XF1C334Z	C 0.33UF, Z, 16V	2	
C633-38	F1A3F1500001	E 15UF, 3KV	6	
C680	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C681,82	F2A1E1010030	E 100UF 25V	2	
C683-88	F1A3F1500001	E 15UF, 3KV	6	
C689,90	ECJ2XF1C334Z	C 0.33UF, Z, 16V	2	
C691	F2A1H100A126	E 10UF, 50V	1	
C801	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C802	ECA1EHG471	E 470UF, 25V	1	
C806	F2A1C6810005	E 680UF, 16V	1	
C807	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C808	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C810	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C811	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C814	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C815	EEVHB1C100	E 10UF, 16V	1	
C817	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C818,19	EEVHB0J220	E 22UF 6.3V	2	
C823	EEVHB0J470	E 47UF, 6.3V	1	
C824,25	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C826,27	ECA1EHG471	E 470UF, 25V	2	
C828	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C829	ECA1VHG221	E 220UF, 35V	1	
C830,31	F2A1C6810005	E 680UF, 16V	2	
C832	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C833,34	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C835	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C836	F2A1C102A123	E 1000UF,@ 16V	1	
C837	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C838	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C839	F2A1E1020019	E 1000UF, 25V	1	
C840	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C841	ECA1EHG101	E 100UF, 25V	1	
C842	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C843	ECA1VHG221	E 220UF, 35V	1	
C844	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C845	EEVHB0J220	E 22UF 6.3V	1	
C846	F2A1C6810005	E 680UF, 16V	1	
C847	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C848	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C849	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C850	EEVHB0J220	E 22UF 6.3V	1	
C851	EEVHB1C100	E 10UF, 16V	1	
C852	EEVHB0J220	E 22UF 6.3V	1	
C901-04	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C1001	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C1002	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1003	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C1004-07	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C1009	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1011	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1012	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	ECJ1VF1H103Z
C1014	EEVHB1C100	E 10UF, 16V	1	
C1015	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1017,18	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C1019	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C1020	EEVHB1C100	E 10UF, 16V	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C1022	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	ECJ1VF1H103Z
C1024	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1025	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1026	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C1028	ECJ1XC1H151J	C 150PF, J, 50V	1	
C1030-33	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C1034	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1035	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1036	ECJ1XC1H220J	C 22PF, J, 50V	1	
C1038	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1040	ECJ1VB1H221K	C 220UF, K, 50V	1	
C1041	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1042	ECJ1VB1H221K	C 220UF, K, 50V	1	
C1043-47	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C1049	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C1051	EEVHB1C100	E 10UF, 16V	1	
C1054,55	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C1056	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C1057-59	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C1060,61	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C1062-64	ECJ2VF1C104Z	C 0.1UF, Z, 16V	3	
C1065-69	ECJ1VB1H102K	C 1000PF, K, 50V	5	
C1070-76	ECJ1XC1H271J	C 270PF, J, 50V	7	
C1077	F1J1A1050020	C 1UF, Z, 50V	1	
C2311	EEVHB1E4R7	E 4.7UF, 25V	1	
C2312	ECJ2XB1H822K	C 8200PF, K, 50V	1	
C2313	F2A1E332A104	E 3300PF, 25V	1	
C2315,16	ECJ2YB1E224K	C 0.22UF, K, 25V	2	
C2359,60	EEVHB1E4R7	E 4.7UF, 25V	2	
C2361	ECA1EHG101	E 100UF, 25V	1	
C2362	EEVHB1HR33	E 0.33UF, 25V	1	
C2363	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2364	F2A1H101A128	E 100UF, 50V	1	
C2366	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2367	F2A1H101A128	E 100UF, 50V	1	
C2368	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2369,70	ECJ2XB1H822K	C 8200PF, K, 50V	2	
C2371	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2372	F2A1E332A104	E 3300PF, 25V	1	
C2373	ECJ2YB1E224K	C 0.22UF, K, 25V	1	
C2381	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2502,03	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	D0GD101JA016
C2504	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C2509	ECJ2XF1C334Z	C 0.33UF, Z, 16V	1	
C2513	EEVHB1C100	E 10UF, 16V	1	
C2523	EEVHB1C100	E 10UF, 16V	1	
C2524	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2527	EEVHB1C100	E 10UF, 16V	1	
C2528,29	EEVHB1E4R7	E 4.7UF, 25V	2	
C2531	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2534-36	EEVHB1E4R7	E 4.7UF, 25V	3	
C2537,38	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2539,40	ECJ2XB1H472K	C 4700PF, K, 50V	2	
C2541-43	ECJ2XB1H102J	C 1000PF, J, 50V	3	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2544,45	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C2546	EEVHB1C100	E 10UF, 16V	1	
C2547	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2548	EEVHB1C100	E 10UF, 16V	1	
C2549	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C2550	EEVHB1H3R3	E 4.7UF, 25V	1	EEVHB1H3R3R
C2552	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2553	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C2554	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2555,56	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2557	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C2558,59	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C2560	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2561	ECA1EHG101	E 100UF, 25V	1	
C2562	EEVHB1C100	E 10UF, 16V	1	
C2563	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C2564,65	ECA1EHG101	E 100UF, 25V	2	
C2566	ECJ2XC1H470J	C 47PF, J, 50V	1	ECUM1H470JCN
C2567	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C2569	ECJ2XC1H070C	C 0.07PF, C, 50V	1	
C2570,71	ECJ2XC1H010C	C 1PF, C, 50V	2	ECUM1H010CCN
C2572,73	ECJ2XC1H560J	C 56PF, J, 50V	2	ECUM1H560JCN
C2575	ECJ2XC1H470J	C 47PF, J, 50V	1	ECUM1H470JCN
C2576,77	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C2581-88	ECJ2XB1H561K	C 560PF, K, 50V	8	
C3001,02	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C3003	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3004	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3005	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C3006-08	ECJ1XF1H103Z	C 0.01UF, Z, 50V	3	ECJ1VF1H103Z
C3009,10	ECJ1XC1H150J	C 15PF, J, 50V	2	
C3011,12	ECJ1XC1H220J	C 22PF, J, 50V	2	
C3014	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3015	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C4001	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4002	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4003	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4004	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4005,06	ECJ2XB1H271K	C 270PF, K, 50V	2	
C4007,08	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4009,10	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4011	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4012	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4013	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C4014	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4015	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4018-23	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C4025	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C4027-30	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C4031	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C4032,33	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4037,38	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C4041	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4042	EEVHB1C100	E 10UF, 16V	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4043	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C4044	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C4045-48	ECJ2VF1C105Z	C 1UF, Z, 16V	4	
C4055-58	ECJ2XB1H102K	C 1000PF, K, 50V	4	
C4063	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C4200	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4201	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4202	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4203	ECJ2XB1H561K	C 560PF, K, 50V	1	
C4204	ECJ2XB1H271K	C 270PF, K, 50V	1	
C4205	ECJ1XB1H271K	C 270PF, K, 50V	1	
C4206,07	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4208	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C6004-06	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C6007,08	EEVHB0J470	E 47UF, 6.3V	2	
C6009-16	ECJ1VF1C104Z	C 0.1UF, Z, 16V	8	
C6017	EEVHB1C100	E 10UF, 16V	1	
C6018	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6019	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6020-26	ECJ1VF1C104Z	C 0.1UF, Z, 16V	7	
C6028-39	ECJ1VF1C104Z	C 0.1UF, Z, 16V	12	
C6301-03	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C6304,05	EEVHB0J101	E 100UF, 6.3V	2	EEVHB0J101P
C6306-08	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C6309	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6310	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6311	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6313,14	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C6316-24	ECJ1VF1C104Z	C 0.1UF, Z, 16V	9	
C6325	EEVHB0J220	E 22UF 6.3V	1	
C6326	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6327-31	ECJ1VF1C104Z	C 0.1UF, Z, 16V	5	
C6332	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6333	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C6334	ECJ2XB1A105K	C 1UF, K, 10V	1	
C6336	ECJ1XC1H101J	C 100PF, J, 50V	1	
C6339	ECJ1XC1H101J	C 100PF, J, 50V	1	
C6340	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C6341	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6342	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C6343	ECJ1VC1H560J	C 56PF, J, 50V	1	
C6344	ECJ1XC1H331J	C 330PF, J, 50V	1	F1H1H3310005
C6345	ECJ1XC1H561J	C 560PF, J, 50V	1	
C6346	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6347	ECJ1VB1H562K	C 5600PF, K, 50V	1	
C6348	ECJ1XC1H331J	C 330PF, J, 50V	1	F1H1H3310005
C6349	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6350	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C6351	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6352	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C6353	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C6354	ECJ1XC1H470J	C 47PF, J, 50V	1	
C6355	EEVHB0J470	E 47UF, 6.3V	1	
C6356-59	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6360	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C6361	EEVHB0J470	E 47UF, 6.3V	1	
C6362,63	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C6364	EEVHB0J220	E 22UF 6.3V	1	
C9001-22	ECJ1VF1C104Z	C 0.1UF, Z, 16V	22	
C9023	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9024	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9028	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9029	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9030	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9031,32	ECJ1XC1H271J	C 270PF, J, 50V	2	
C9033	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9034,35	ECJ1XC1H271J	C 270PF, J, 50V	2	
C9036	EEVHB1C100	E 10UF, 16V	1	
C9037	ECJ1XC1H391J	C 390PF, J, 50V	1	ECUX1H391JCV
C9038	ECJ1XC1H181J	C 180PF, J, 50V	1	
C9039,40	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C9041	EEVHB1C100	E 10UF, 16V	1	
C9042	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9043	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9044	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C9045	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C9046	ECJ1XC1H150J	C 15PF, J, 50V	1	
C9047	ECJ1XC1H391J	C 390PF, J, 50V	1	ECUX1H391JCV
C9048	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9049	ECJ1VF1C224Z	C 0.22UF, Z, 16V	1	
C9050,51	ECJ1XC1H030C	C 3PF, C, 50V	2	
C9052	ECJ1XF1H103Z	C 0.01UF, Z, 50V	1	ECJ1VF1H103Z
C9053	EEVHB1C100	E 10UF, 16V	1	
C9054	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9055,56	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9057	ECJ1XC1H391J	C 390PF, J, 50V	1	ECUX1H391JCV
C9058,59	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9061-64	ECJ1VF1C104Z	C 0.1UF, Z, 16V	4	
C9501	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9502	EEVHB0J470	E 47UF, 6.3V	1	
C9503	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9505,06	ECJ1VF1C104Z	C 0.1UF, Z, 16V	2	
C9507	EEVHB0J470	E 47UF, 6.3V	1	
C9508-10	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9512	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9514-16	EEVHB1C100	E 10UF, 16V	3	
C9517-19	ECJ1VF1C104Z	C 0.1UF, Z, 16V	3	
C9520-22	ECJ1VB1C104K	C 0.1UF, K, 16V	3	
C9523	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C9524	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9526	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9527	EEVHB1C220	E 22UF, 16V	1	EEVHB1C220R
C9528	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9529,30	EEVHB1E4R7	E 4.7UF, 25V	2	
C9531-33	ECJ1VF1A105Z	C 1UF, Z, 10V	3	
C9534	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9536	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9538	ECJ1VB1H103K	C 0.01UF, K, 50V	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9540	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C9541-43	ECJ1XF1H103Z	C 0.01UF, Z, 50V	3	ECJ1VF1H103Z
C9544,45	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C9546	ECJ1VF1C474Z	C 0.47UF, Z, 16V	1	
C9547	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9548	ECJ1VF1C104Z	C 0.1UF, Z, 16V	1	
C9549	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9550	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9551	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9552	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9553	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9554	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9555	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9556	ECJ1XC1H151J	C 150PF, J, 50V	1	
C9557	ECJ1VC1H270J	C 27PF, J, 50V	1	
C9558	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
D001	MA152K	DIODE	1	MA3X152K
D002,03	MA3020	ZENER DIODE	2	
D004	LNJ101WHLEA	LED	1	
D601,02	MA111	DIODE	2	MA2J111
D605-08	B0JCNE000004	DIODE	4	
D609-12	MA113	DIODE	4	MA2J113
D613,14	DAN217	DIODE	2	
D615,16	MA111	DIODE	2	MA2J111
D680,81	MA111	DIODE	2	MA2J111
D684,85	DAN217	DIODE	2	
D801	B0JANE000009	DIODE	1	
D802	EK14	DIODE	1	B0JAME000061
D804,05	MA111	DIODE	2	MA2J111
D806	MA8062L	ZENER DIODE	1	MAZ80620LL
D807,08	EK14	DIODE	2	B0JAME000061
D809	AK04	DIODE	1	B0JAMC000003
D813	MA111	DIODE	1	MA2J111
D814	MA8056M	ZENER DIODE	1	MAZ80560ML
D816	MA8110M	ZENER DIODE	1	MAZ81100ML
D817,18	MA111	DIODE	2	MA2J111
D819	MA8056M	ZENER DIODE	1	MAZ80560ML
D820	MA111	DIODE	1	MA2J111
D821	MA8062L	ZENER DIODE	1	MAZ80620LL
D822	AK04	DIODE	1	B0JAMC000003
D951-60	MA8056M	ZENER DIODE	10	MAZ80560ML
D2300	MA8200M	ZENER DIODE	1	MAZ82000M
D2304,05	MA8200M	ZENER DIODE	2	MAZ82000M
D2308	MA8200M	ZENER DIODE	1	MAZ82000M
D2501	MA8047M	ZENER DIODE	1	MAZ80470M
D2510	MA111	DIODE	1	MA2J111
D2511	MA157A	DIODE	1	MA3X157A
D2512	MA152WK	DIODE	1	MA3X152E
D2513	MA165	DIODE	1	MA2C165
D2516	MA152WK	DIODE	1	MA3X152E
D3001-03	MA8056M	ZENER DIODE	3	MAZ80560ML
D3004	MA2J72800L	ZENER DIODE	1	
D4003,04	MA8140M	ZENER DIODE	2	MAZ81400M

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D4006	MA8140M	ZENER DIODE	1	MAZ81400M
D4008	MA8140M	ZENER DIODE	1	MAZ81400M
D6301,02	MA2Z374001FD	ZENER DIODE	2	
DG1	K1MN50A00005	50P CONNECTOR	1	
DG2	K1MN36A00006	36P CONNECTOR	1	
DG3	TJSF52250	1P CONNECTOR	1	K1MN50B00005
DG4	K1KA11A00048	11P CONNECTOR	1	
H1,H2	K1KA14A00128	14P CONNECTOR	2	
H3	K1KA12A00188	12P CONNECTOR	1	
H4	K1KA11B00039	11P CONNECTOR	1	
H5,H6	K1KB20B00031	20P CONNECTOR	2	
IC001	C0ZBZ0000443	IC	1	
IC601	NJM2904M	LINEAR IC	1	C0ABBA000021
IC602	C0DBCMA00004	IC	1	
IC801-04	PQ1CZ21H2ZP	IC	4	C0DBCMG00001
IC806	C0CBAKG00004	IC	1	
IC808	PQ1CZ21H2ZP	IC	1	C0DBCMG00001
IC810	AN77L08M	IC	1	
IC901	C0JBAN000098	IC	1	
IC905-09	TC4066BF	IC	5	C0JBAS000085
IC910	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1001	TC7MBD3245KL	IC	1	C0JBAZ001839
IC1002	C2CBYF000028	IC	1	
IC1003	PST9128NR	IC (LOGIC)	1	C0EBE0000066
IC1004	TVRJ747	ROM IC	1	C3EBGC000017
IC1007	TVRJ712	ROM IC	1	C3FBKD000104
IC1008	TVSA0500	IC	1	C3ABMG000074
IC2301	TA8256BH	LINEAR IC	1	C1BA00000218
IC2502	AN17880A	IC	1	
IC2503	C1AB00001584	IC	1	
IC3001	TVRJ677	ROM IC	1	
IC3002	TVRJ674	ROM IC	1	
IC3004	M51957BFP	LINEAR IC	1	C0EBB0000024
IC4002	CXA2069Q	LINEAR IC	1	C1AB00000459
IC6001	C0FBAD000070	IC	1	
IC6301	C0JBAF000374	IC	1	
IC6302	C1ZBZ0001831	IC	1	
IC6304	C0JBAZ000851	IC	1	
IC6305	C0ABBB000195	IC	1	
IC6306	TC74LCX04FT	IC	1	C0JBAB000288
IC9001	C1AB00001345	IC	1	
IC9501	74LVC74APW	MOS IC (CMOS S/LOGIC)	1	C0JBAZ000923
IC9502	C0FBBD000126	IC	1	
IC9505	AN5394FB	IC	1	
JK801	K2EE2A000001	JACK	1	⚠
JK2501	K2HC103A0002	JACK	1	
JK2502	TJSF32800	HEAD PHON JACK	1	K2HC103B0095
JK4001	K1U413A00002	TERMINAL BOARD	1	
JK4002,03	K1FB121A0006	JACK	2	

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JS005	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS011	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
K1	K1MN06B00003	CONNECTOR	1	
L001	TLPF071	CHOKE COIL	1	G1ZZ00000032
L002	ELJPA330KB	CHIP INDUCTOR	1	ELJPA330KF
L004	ELJFA221KB	CHIP INDUCTOR	1	ELJFA221KF
L007,08	J0JHC0000001	CHIP INDUCTOR	2	
L009,10	ELJPA330KB	CHIP INDUCTOR	2	ELJPA330KF
L601-04	G1C680MA0032	INDUCTION COIL	4	
L801	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L802	TAL10RP101LB	INDUCTION COIL	1	G0ZZ00001930
L803-05	TALL08N470KA	INDUCTION COIL	3	G0A470GA0011
L806,07	TAL10RP101LB	INDUCTION COIL	2	G0ZZ00001930
L808	TAL10RP181LB	INDUCTION COIL	1	G0ZZ00001931
L809	TALL08N470KA	INDUCTION COIL	1	G0A470GA0011
L810	TAL10RP151LB	INDUCTION COIL	1	G0ZZ00001908
L1001	ELJPA4R7MB	CHIP INDUCTOR	1	ELJPA4R7MF
L1002	ELJPA180KB	CHIP INDUCTOR	1	
L1003	ELJPA330KB	CHIP INDUCTOR	1	ELJPA330KF
L1004	ELJPA3R3MB	CHIP INDUCTOR	1	
L1009	ELJFA4R7KB	CHIP INDUCTOR	1	ELJFA4R7KF
L1010	ELJFA8R2KB	CHIP INDUCTOR	1	
L1013	ELJFA4R7KB	CHIP INDUCTOR	1	ELJFA4R7KF
L2301	EXCELSA35	BEAD CHOKE	1	
L2501	ELJPA330KB	CHIP INDUCTOR	1	ELJPA330KF
L2503,04	ELJPA330KB	CHIP INDUCTOR	2	ELJPA330KF
L2505	ELJFA6R8MB	CHIP COIL	1	
L2506,07	ELJPA330KB	CHIP INDUCTOR	2	ELJPA330KF
L3001	ELJFA100JB	CHIP COIL	1	ELJFA100JF
L4001-05	J0JBC0000004	CHIP INDUCTOR	5	
L4200-02	J0JBC0000004	CHIP INDUCTOR	3	
L4203	EXC3BB221H	BEAD CHOKE	1	
L4204	J0JBC0000004	CHIP INDUCTOR	1	
L6001,02	ELJPA100KB	CHIP INDUCTOR	2	
L6301-03	J0JHC0000001	CHIP INDUCTOR	3	
L6304	ELJPA101KB	CHIP INDUCTOR	1	ELJPA101KF
L6305	G1C121Z00004	INDUCTOR COIL	1	
L6306	ELJND68NJB	CHIP INDUCTOR	1	
L6307	ELJNDR18JB	CHIP INDUCTOR	1	
L6308-10	J0JHC0000001	CHIP INDUCTOR	3	
L9001,02	ELJFA220JB	CHIP COIL	2	ELJFA220JF
L9003,04	ELJFA5R6JB	CHIP INDUCTOR	2	ELJFA5R6JF
L9005	ELJFA220JB	CHIP COIL	1	ELJFA220JF
L9006	ELJPA6R8MB	CHIP INDUCTOR	1	ELJPA6R8MF
L9501,02	ELJPA100KB	CHIP INDUCTOR	2	
L9503-05	ELJFA4R7JB	CHIP INDUCTOR	3	ELJFA4R7JF
LC1001-03	ELKE103FA	NOISE FILTER	3	
LC6301-08	J0HABB000008	LC FILTER	8	
LC6309	J0HAAB000010	LC FILTER	1	
LC6310-25	J0HABB000008	LC FILTER	16	
LC9001	ELKE103FA	NOISE FILTER	1	

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LC9003-11	ELKE103FA	NOISE FILTER	9	
LG1-G7	TESA169	SHIELD CLIP	7	
LG20-29	TESA169	SHIELD CLIP	10	
LG32,33	TESA169	SHIELD CLIP	2	
LG36-39	TESA169	SHIELD CLIP	4	
LG091,92	TJC85341	TERMINAL	2	K4ZZ01000121
LG601-03	TJC85341	TERMINAL	3	K4ZZ01000121
LG606	TJC85341	TERMINAL	1	K4ZZ01000121
LG681,82	TJC85341	TERMINAL	2	K4ZZ01000121
LG801	TJC85341	TERMINAL	1	K4ZZ01000121
LG804-13	TJC85341	TERMINAL	10	K4ZZ01000121
LG1000-03	K4CD01000002	TERMINAL	4	
P1	K1KB10A00077	10P CONNECTOR	1	
P2	VJS1472	CONNECTOR	1	K1MN10A00031
P3,P4	K1KA03B00065	3P CONNECTOR	2	
P5	K1MN17A00028	17P CONNECTOR	1	
P6,P7	K1KA03B00065	3P CONNECTOR	2	
P8	VJS1472	CONNECTOR	1	K1MN10A00031
PA618,19	UNHH20500L	TRANSISTOR	2	
Q001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q004,05	2SB709A	TRANSISTOR	2	2SB0709A
Q006	UNR521100L	TRANSISTOR	1	UNR5211
Q601	UNR521100L	TRANSISTOR	1	UNR5211
Q602	2SB1219A	TRANSISTOR	1	
Q603	2SC39380LL	TRANSISTOR	1	2SC39380Q
Q604,05	FMY1AT148	TRANSISTOR	2	
Q606,07	2SJ499	TRANSISTOR	2	
Q608	2SD601A	TRANSISTOR	1	2SD0601A
Q609,10	UNR521100L	TRANSISTOR	2	UNR5211
Q611	2SD601A	TRANSISTOR	1	2SD0601A
Q612,13	UN5111	TRANSISTOR	2	UNR5111
Q614-17	B1BBFF000003	TRANSISTOR	4	
Q680,81	2SD601A	TRANSISTOR	2	2SD0601A
Q803	B1DHDD000013	TRANSISTOR	1	B1DHDD000012
Q804,05	UNR521100L	TRANSISTOR	2	UNR5211
Q806	2SD601A	TRANSISTOR	1	2SD0601A
Q807	UNR521100L	TRANSISTOR	1	UNR5211
Q808	2SB709A	TRANSISTOR	1	2SB0709A
Q810-12	B1DHDD000013	TRANSISTOR	3	B1DHDD000012
Q813	2SD601A	TRANSISTOR	1	2SD0601A
Q814	UNR521100L	TRANSISTOR	1	UNR5211
Q815	2SD601A	TRANSISTOR	1	2SD0601A
Q817	UN5111	TRANSISTOR	1	UNR5111
Q818-22	UNR521100L	TRANSISTOR	5	UNR5211
Q823-25	B1DHDC000016	TRANSISTOR	3	
Q826	UNR521100L	TRANSISTOR	1	UNR5211
Q901	UNR521100L	TRANSISTOR	1	UNR5211
Q902-04	2SB1440	TRANSISTOR	3	2SB14400H
Q905-07	2SB709A	TRANSISTOR	3	2SB0709A
Q908	2SB1440	TRANSISTOR	1	2SB14400H

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q909	2SB709A	TRANSISTOR	1	2SB0709A
Q1001	UN5111	TRANSISTOR	1	UNR5111
Q1002	UNR521100L	TRANSISTOR	1	UNR5211
Q1004	2SD601A	TRANSISTOR	1	2SD0601A
Q1006-09	2SD601A	TRANSISTOR	4	2SD0601A
Q2501	UNR521100L	TRANSISTOR	1	UNR5211
Q2502	UN5111	TRANSISTOR	1	UNR5111
Q2503	UNR521100L	TRANSISTOR	1	UNR5211
Q2510,11	UNR521100L	TRANSISTOR	2	UNR5211
Q2512	2SD601A	TRANSISTOR	1	2SD0601A
Q2513	2SB709A	TRANSISTOR	1	2SB0709A
Q2514	2SD601A	TRANSISTOR	1	2SD0601A
Q2515	2SB709A	TRANSISTOR	1	2SB0709A
Q2516	2SD601A	TRANSISTOR	1	2SD0601A
Q2517,18	UNR521100L	TRANSISTOR	2	UNR5211
Q2519	UN5111	TRANSISTOR	1	UNR5111
Q3001,02	UNR521100L	TRANSISTOR	2	UNR5211
Q4001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q4004	2SB709A	TRANSISTOR	1	2SB0709A
Q4005,06	2SD601A	TRANSISTOR	2	2SD0601A
Q4200	2SD601A	TRANSISTOR	1	2SD0601A
Q6001-03	2SD601A	TRANSISTOR	3	2SD0601A
Q6301	2SD601A	TRANSISTOR	1	2SD0601A
Q6304	B1ABBB000046	TRANSISTOR	1	
Q9001-04	2SD601A	TRANSISTOR	4	2SD0601A
Q9501	2SC39380LL	TRANSISTOR	1	2SC39380Q
Q9502-04	2SD601A	TRANSISTOR	3	2SD0601A
Q9505-07	2SB709A	TRANSISTOR	3	2SB0709A
R001	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R002	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R003	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R004	ERJ6GEYJ821	M 820 OHM,J,1/10W	1	D0GD821JA016
R007	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R008	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R009	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R010	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R011,12	ERJ3EKF5600	M 560 OHM, 1/16W	2	
R013	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R015	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R016	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R017	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R018	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R021	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R022-24	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R025	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R027	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R031,32	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R033-35	ERJ6GEYJ561	M 560 OHM,J,1/10W	3	
R036	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R037,38	ERJ6ENF6801	M 6.8KOHM, 1/10W	2	
R039	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R040	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R042	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R044	ERJ6ENF6802	M 68KOHM, 1/10W	1	
R046,47	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R048	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R050	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R051	ERJ8GCY0R00	M 0 OHM, J,1/8W	1	ERJ8GCY0R00V
R052	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R053	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R601-04	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R605	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R606	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R607,08	ERJ12YJ471	M 470OHM,J, 1/2W	2	
R609	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R610,11	ERJ6ENF6982	M69.8KOHM, 1/10W	2	D1BD6982A028
R612,13	ERJ6ENF2212	M22.1KOHM, 1/10W	2	D1BD2212A028
R614	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R615,16	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R617,18	ERJ6ENF2212	M22.1KOHM, 1/10W	2	D1BD2212A028
R619	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R620	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R621,22	ERJ8GEYJ152	M 1.5KOHM, J,1/8W	2	ERJ8GEYJ152V
R623	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R624	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	ERJ8GEYJ471V
R625	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R626	ERJ8GEYJ471	M 470 OHM, J,1/8W	1	ERJ8GEYJ471V
R627	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R628	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R629,30	ERJ12YJ100	M 10 OHM,J, 1/2W	2	
R631	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R634	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R635	ERJ12YJ471	M 470OHM,J, 1/2W	1	
R636	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R637	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R638	ERJ6ENF4872	M48.7KOHM, 1/10W	1	D1BD4872A028
R639	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R640	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R641	ERJ6ENF3302	M 33KOHM, 1/10W	1	
R642	ERJ6ENF4872	M48.7KOHM, 1/10W	1	D1BD4872A028
R643	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R644,45	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R646,47	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R648,49	ERJ12YJ182	M 1.8KOHM, 1/2W	2	
R650	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R651,52	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R653	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R654-57	ERJ12YK3R3	M 3.3OHM,J, 1/2W	4	
R658,59	ERJ6ENF5111	M5.11KOHM, 1/10W	2	D1BD5111A027
R660,61	ERJ6ENF1472	M14.7KOHM, 1/10W	2	D1BD1472A028
R662,63	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R664,65	ERJ14NF2000	M 220OHM, 1/10W	2	
R680	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R681	ERJ14NF2000	M 220OHM, 1/10W	1	
R682	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R683	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R684	ERJ14NF2000	M 220OHM, 1/10W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R685	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R686	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R687	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R688	ERJ6GEYJ133	M 13KOHM,J,1/10W	1	D0GD133JA016
R689	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R690,91	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R801	D0X0R0000010	M 0 OHM,J,1/10W	1	
R804	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R805	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R806	D0X0R0000010	M 0 OHM,J,1/10W	1	
R807	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R808	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R811	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	D0GD153JA016
R812	D0X0R0000010	M 0 OHM,J,1/10W	1	
R814-16	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	D0GD102JA016
R818	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R819	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R820	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R821	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	D0GD153JA016
R822,23	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R824	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R825	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R827	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R828	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R829,30	D0X0R0000010	M 0 OHM,J,1/10W	2	
R831,32	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R833	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R834,35	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R836	ERJ6ENF1101	M 1.1KOHM, 1/10W	1	D1BD1101A027
R837	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R838	ERJ6ENF1691	M 1.6KOHM, 1/10W	1	D1BD1691A027
R839	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R840	ERJ6ENF1781	M1.78KOHM, 1/10W	1	D1BD1781A027
R841	ERJ6ENF1102	M 11KOHM, 1/10W	1	D1BD1102A028
R843	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R846	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	1	D0GD822JA016
R847	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R850	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R851	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R852	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R853	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R854	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R856	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R857,58	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	D0GD102JA016
R859	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R860	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R862,63	D0X0R0000010	M 0 OHM,J,1/10W	2	
R865	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R880	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R901-06	ERJ6GEY0R00	M 0 OHM,J,1/10W	6	
R907,08	ERJ3GEYJ121	M 120 OHM,J,1/16W	2	D0GB121JA002
R909-11	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R913,14	EXB38V121J	RESISTOR ARRAY	2	
R915,16	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R918	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R923	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	D0GD151JA016
R924,25	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R926	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R927-29	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	D0GB102JA007
R930	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R1001	ERJ3GEYJ512	M 5.1KOHM,J,1/16W	1	
R1002	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1003	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1004	EXB38V473J	RESISTOR ARRAY	1	
R1005,06	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R1007	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1008	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1009	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1010	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1011	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1012	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1013	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1015	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1016	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1017,18	EXB38V680J	RESISTOR ARRAY	2	
R1019	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1020	EXB38V680J	RESISTOR ARRAY	1	
R1023	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1027	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1029	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R1030	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1033	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1034	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1036	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R1037	EXB38V680J	RESISTOR ARRAY	1	
R1039	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1044	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1045	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1046	EXB38V680J	RESISTOR ARRAY	1	
R1047	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1048	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R1049	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1050	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R1051	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1052	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R1053,54	EXB38V680J	RESISTOR ARRAY	2	
R1055	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1056	ERJ3GEYJ225	M 2.2MOHM,J,1/16W	1	ERJ3GEYJ225V
R1057	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1058	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1059	EXB38V680J	RESISTOR ARRAY	1	
R1060	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R1061	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1062,63	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R1064	EXB38V680J	RESISTOR ARRAY	1	
R1066	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R1068,69	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1070	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1071	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1072	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1073	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R1074	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1075,76	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	D0GB104JA002
R1077	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1078	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1079	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1080	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	D0GB224JA007
R1081	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1082	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R1083	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1085,86	EXB38V680J	RESISTOR ARRAY	2	
R1087,88	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R1089-92	ERJ3GEYJ101	M 100 OHM,J,1/16W	4	D0GB101JA002
R1093	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1094,95	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R1096	ERJ3GEYJ273	M 27KOHM,J,1/16W	1	D0GB273JA007
R1098	EXB38V101J	RESISTOR ARRAY	1	
R1100	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1101,02	ERJ3GEYJ183	M 18KOHM,J,1/16W	2	
R1103	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1105	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1108	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R1109	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R1116	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R1119	ERJ3GEY0R00		1	
R1132	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R1133	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R1135	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2309	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	D0GD152JA016
R2310	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R2311	ERDS1TJ2R2	C 2.2 OHM, J,1/2W	1	
R2352	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R2353,54	ERJ6GEYJ152	M 13KOHM,J,1/10W	2	D0GD152JA016
R2355,56	ERDS1TJ2R2	C 2.2 OHM, J,1/2W	2	
R2360,61	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R2503,04	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2511,12	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2514,15	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2516	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2518	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2530-32	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R2533	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	D0GB104JA002
R2535	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2536	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R2537,38	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2539	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2540-43	ECJ1VB1C104K	C 0.1UF, K, 16V	4	
R2545	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	D0GB104JA002
R2546	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2547	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2549	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2551	ERJ6GEYJ152	M 13KOHM,J,1/10W	1	D0GD152JA016

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2552	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	D0GD184JA016
R2553	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2554	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R2556	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2557	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2558	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2559	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R2560,61	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R2562,63	ERJ3GEYJ273	M 27KOHM,J,1/16W	2	D0GB273JA007
R2564,65	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2566	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2567	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	D0GD101JA016
R2568,69	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R2571,72	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	D0GB104JA002
R2574	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3001	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R3002,03	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002
R3004,05	ERJ3GEYJ473	M 47KOHM,J,1/16W	2	
R3006,07	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002
R3008-14	EXB38V473J	RESISTOR ARRAY	7	
R3015	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3016,17	EXB38V473J	RESISTOR ARRAY	2	
R3019	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R3020-22	EXB38V473J	RESISTOR ARRAY	3	
R3024,25	EXB38V473J	RESISTOR ARRAY	2	
R3027	EXB38V473J	RESISTOR ARRAY	1	
R3028	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3030	EXB38V473J	RESISTOR ARRAY	1	
R3031	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3032-34	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R3035,36	EXB38V473J	RESISTOR ARRAY	2	
R3037	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R3038	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3039	EXB38V473J	RESISTOR ARRAY	1	
R3040	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3041	EXB38V473J	RESISTOR ARRAY	1	
R3042,43	ERJ3GEYJ393	M 39KOHM,J,1/16W	2	
R3046	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3053	ERJ3EKF2432	M24.3KOHM, 1/16W	1	
R3058	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R3059-61	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	D0GB103JA002
R3062	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R3063	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4001	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4002	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R4003	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4004,05	ERJ6GEYJ221	M 220 OHM,J,1/10W	2	
R4006	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R4007	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R4008	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R4009	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R4010	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R4011	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4012	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4013	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4014	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4015	ERJ6GEYJ302	M 3KOHM,J,1/10W	1	
R4016	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	D0GD182JA016
R4017	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R4018-20	ERJ6ENF75R0	M 75 OHM, 1/10W	3	D1BD75R0A025
R4024	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4025,26	ERJ6ENF1200	M 120 OHM, 1/10W	2	
R4027	ERJ6ENF75R0	M 75 OHM, 1/10W	1	D1BD75R0A025
R4028,29	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	D0GD101JA016
R4031,32	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002
R4033	ERJ6ENF1200	M 120 OHM, 1/10W	1	
R4034	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4037	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4038-40	ERJ6GEYJ221	M 220 OHM,J,1/10W	3	
R4041	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4042	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R4044	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4045	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R4050,51	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	D0GD101JA016
R4052,53	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	D0GD102JA016
R4054	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	D0GD184JA016
R4055,56	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R4057	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	D0GD274JA016
R4058	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	D0GD184JA016
R4059,60	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R4062	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	D0GD102JA016
R4063	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R4064	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R4078,79	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	D0GD102JA016
R4080,81	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	D0GB102JA007
R4200	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R4201,02	ERJ6ENF75R0	M 75 OHM, 1/10W	2	D1BD75R0A025
R4203	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R4204	ERJ6GEYJ750	M 75 OHM,J,1/10W	1	
R4205	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R4206	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R4207	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R4208	ERJ3GEYJ302	M 3KOHM,J,1/16W	1	
R4209	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R6001-03	ERJ6ENF1131	M1.13KOHM, 1/10W	3	D1BD1131A027
R6004-06	ERJ6ENF1001	M 1KOHM, 1/10W	3	
R6007	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R6008	EXB38V472J	RESISTOR ARRAY	1	
R6009	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R6010	ERJ3EKF1501	M 1.5KOHM, 1/16W	1	
R6011-13	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R6014	ERJ3EKF7500	M 75OHM, 1/16W	1	
R6015-17	ERJ3GEYJ123	M 12KOHM,J,1/16W	3	D0GB123JA002
R6018,19	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R6020	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6027-29	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	D0GD101JA016
R6301,02	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	D0GB103JA002
R6303	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6307-09	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R6312	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6313	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R6314	EXB38V103J	RESISTOR ARRAY	1	
R6315	EXB38V101J	RESISTOR ARRAY	1	
R6316	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6317	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R6318	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R6319	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6320	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R6325	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6326	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R6327	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6328	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R6329,30	EXB38VR000	RESISTOR ARRAY	2	
R6331	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6332,33	EXB38VR000	RESISTOR ARRAY	2	
R6337	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R6338	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R6339	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R6340	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	D0GB153JA002
R6341	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R6342	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R6343	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	1	D0GB822JA007
R6344	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002
R6345,46	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R6347	EXB38VR000	RESISTOR ARRAY	1	
R6348	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6349	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R6351	EXB38VR000	RESISTOR ARRAY	1	
R6352	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R6353	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	D0GB104JA002
R6354	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R6355	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R6356	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R6358	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9001,02	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9004-16	ERJ3GEY0R00	M 0 OHM, 1/16W	13	
R9017	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R9024-26	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	D0GB102JA007
R9027-30	ERJ6ENF75R0	M 75 OHM, 1/10W	4	D1BD75R0A025
R9031	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R9032,33	ERJ6ENF75R0	M 75 OHM, 1/10W	2	D1BD75R0A025
R9034	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	D0GB122JA002
R9035	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R9036	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9037	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9038	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9039	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9040	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9042	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9046	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	D0GB102JA007
R9047	ERJ3GEYJ750	M 75 OHM,J,1/16W	1	
R9048,49	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	D0GB101JA002

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9050	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9051-53	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R9054	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	D0GB101JA002
R9055	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9502	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9503	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9505	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9506,07	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R9508	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9509	ERJ3EKF3900	M 390HM, 1/16W	1	
R9511,12	ERJ3EKF3900	M 390HM, 1/16W	2	
R9513	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9514-17	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9518	ERJ3EKF7501	M 7.5KOHM, 1/16W	1	
R9522-24	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9526,27	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9529,30	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9532,33	ERJ3GEYJ333	M 33KOHM,J,1/16W	2	
R9535-37	ERJ3GEYJ471	M 470 OHM,J,1/16W	3	
R9538	EXB38V101J	RESISTOR ARRAY	1	
R9542	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9543	ERJ3EKF2002	M 20KOHM, 1/16W	1	
R9545	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9546	ERJ3GEYJ274	M 270KOHM,J,1/16W	1	D0GB274JA007
R9547	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9548	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9550	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R9551	ERJ3GEYJ563	M 56KOHM,J,1/16W	1	
R9552	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9553	ERJ3GEYJ684	M 680KOHM,J,1/16W	1	D0GB684JA002
R9554	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9555-57	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	D0GB101JA002
R9558-60	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9563	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9564	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	D0GB151JA002
R9565	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9566	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R9567	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9568	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	D0GB151JA002
R9569	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9570	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R9571	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9572	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	D0GB151JA002
R9573	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9574	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	D0GB103JA002
R9575	ERJ3GEYJ681	M 680 OHM,J,1/16W	1	
R9576-78	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TNPH0473AB	CIRCUIT BOAD A	1	⚠
RTL	TNPA2394AB	CIRCUIT BOAD B	1	⚠
RTL	TNPA2397AB	CIRCUIT BOAD H1	1	⚠

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TNPA2398AB	CIRCUIT BOAD H2	1	⚠
RTL	TNPA2396AB	CIRCUIT BOAD K	1	⚠
RTL	TNPA2395AB	CIRCUIT BOAD V	1	⚠
RTL	TNPA2392AB	CIRCUIT BOAD P1	1	⚠
RTL	TNPA2393AB	CIRCUIT BOAD P2	1	⚠
RTL	TXNDG10GLK	CIRCUIT BOAD DG	1	⚠
S001-07	EVQ23405R	SWITCH	7	
S801	TSED0012	SWITCH	1	K0F122A00142
T601,02	ETJ23K12AM	INVARTOR TRANS	2	⚠
T680,81	ETJ23K12AM	INVARTOR TRANS	2	⚠
TNR001	ENG29508G	TUNER	1	⚠
V1	K1MN05A00014	5P CONNECTOR	1	
X001	EFCS7004BF	CERAMIC FILTER	1	
X002	EFCS6504BF	CERAMIC FILTER	1	
X1001	H0J600400006	CRYSTAL	1	
X2501	H0J184500020	CRYSTAL	1	
X3001	TSS4008-N	CRYSTAL	1	H0J160500020
X3002	TSSA154	CRYSTAL	1	H0J372700001
X9001	H0J202500003	CRYSTAL	1	

12. Schematic Diagram for printing with A4 size

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